

75. (Amended) A method of producing a protein or a peptide in the urine of a non-human transgenic mammal, said method comprising:

(a) providing a non-human transgenic mammal having stably integrated into its genome an exogenous gene encoding a protein or a peptide comprising expression regulatory sequences operably linked to said exogenous gene encoding said protein or peptide; and

(b) allowing said exogenous gene encoding said protein or peptide to be expressed and to be secreted into the urine of said transgenic mammal, wherein said expression regulatory sequences comprise 5' regulatory sequences selected from the group consisting of a uromodulin gene, a renin gene, an erythropoietin gene, an apolipoprotein E gene, and an aquaporin gene.

80. (Amended) The method of claim 79, wherein said 3' regulatory sequences are selected from the group consisting of a uromodulin gene, a uroplakin gene, a renin gene, an erythropoietin gene, an apolipoprotein E gene, and an aquaporin gene.

83. (Amended) The method of claim 82, wherein said 3' regulatory sequences are selected from the group consisting of a uromodulin gene, a uroplakin gene, a renin gene, an erythropoietin gene, an apolipoprotein E gene, and an aquaporin gene.

86. (Amended) The method of claim 75, wherein said protein or peptide is selected from the group consisting of prothrombin, Factor VII, Factor IX, Protein C, Protein S, Factor V, Factor VIII, α 1-anti-trypsin, antithrombin III, fibrinogen, albumin, an immunoglobulin, a hormone, a growth factor, erythropoietin, a bone morphogenetic protein, and an ion channel protein.

88. (Amended) A non-human transgenic mammal that produces in its urine a protein or peptide, wherein said transgenic mammal has stably integrated into its genome an exogenous gene encoding a protein or peptide comprising expression regulatory sequences operably linked to said exogenous gene, wherein said expression regulatory sequences comprise 5' regulatory sequences selected from the group consisting of a uromodulin gene, a renin gene, an erythropoietin gene, an apolipoprotein E gene, and an aquaporin gene, and wherein said protein or peptide is detectable in the urine of said transgenic mammal.

93. (Amended) The mammal of claim 92, wherein said 3' regulatory sequences are selected from the group consisting of a uromodulin gene, a uroplakin gene, a renin gene, an erythropoietin gene, an apolipoprotein E gene, and an aquaporin gene.

96. (Amended) The mammal of claim 95, wherein said 3' regulatory sequences are selected from the group consisting of a uromodulin gene, a uroplakin gene, a renin gene, a erythropoietin gene, an apolipoprotein E gene, and a aquaporin gene.

99. (Amended) The mammal of claim 88, wherein said protein or peptide is selected from the group consisting of prothrombin, Factor VII, Factor IX, Protein C, Protein S, Factor V, Factor VIII, α 1-anti-trypsin, antithrombin III, fibrinogen, albumin, an immunoglobulin, a hormone, a growth factor, erythropoietin, a bone morphogenetic protein, and an ion channel protein.